7/30

## **ENTERED**



# 8

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/974,870B

DATE: 08/21/2002 TIME: 10:12:59

Input Set : N:\Crf3\08122002\I974870F.raw
Output Set: N:\CRF3\08202002\I974870B.raw

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1 <110> APPLICANT: Whitcombe, David
               Theaker, Jane
       3
               Gibson, Neil
              Little, Stephen
      5 <120> TITLE OF INVENTION: Methods and Primers for Detecting Target Nucleic Acid
Sequences
      6 <130> FILE REFERENCE: 1991-211
C--> 7 <140> CURRENT APPLICATION NUMBER: US/09/974,870B
      8 <141> CURRENT FILING DATE: 2002-07-22
      9 <150> PRIOR APPLICATION NUMBER: US 09/200,232
     10 <151> PRIOR FILING DATE: 1998-11-25
     11 <150> PRIOR APPLICATION NUMBER: UK 9812768.1
     12 <151> PRIOR FILING DATE: 1998-06-13
     13 <160> NUMBER OF SEQ ID NOS: 9
     14 <170> SOFTWARE: PatentIn version 3.0
     16 <210> SEQ ID NO: 1
     17 <211> LENGTH: 30
     18 <212> TYPE: DNA
     19 <213> ORGANISM: Artificial Sequence
     20 <220> FEATURE:
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     22 <222> LOCATION: ()..()
     23 <223> OTHER INFORMATION: B2098-BRCA Scorpion Primer
     24 <221> NAME/KEY: stem_loop
     25 <222> LOCATION: (1)..(29)
W--> 26 <221> misc_feature
     27 <222> LOCATION: (30)..(30)
     28 <223> OTHER INFORMATION: n = deoxyribouridine w/ fluorophore and replication blocker
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W - - > 30
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    33 <211> LENGTH: 29
    34 <212> TYPE: DNA
    35 <213> ORGANISM: Artificial Sequence
    36 <220> FEATURE:
    37 <221> NAME/KEY: misc_feature
    38 <222> LOCATION: ()..()
    39 <223> OTHER INFORMATION: R186-98, untailed equivalent of B2098 primer
    40 <400> SEQUENCE: 2
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    43 <210> SEQ ID NO: 3
    44 <211> LENGTH: 30
    45 <212> TYPE: DNA
    46 <213> ORGANISM: Artificial Sequence
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DATE: 08/21/2002

TIME: 10:12:59

Input Set : N:\Crf3\08122002\I974870F.raw Output Set: N:\CRF3\08202002\I974870B.raw 47 <220> FEATURE: 48 <221> NAME/KEY: misc\_feature 49 <222> LOCATION: ()..() 50 <223> OTHER INFORMATION: Z3702, probe segment of B2098 primer 51 <221> NAME/KEY: stem\_loop 52 <222> LOCATION: (1)..(29) W--> 53 <221> misc\_feature 54 <222> LOCATION: (1)..(1) 55 <223> OTHER INFORMATION: fluoroscein dye W--> 56 <221> misc\_feature 57 <222> LOCATION: (30)..(30) 58 <223> OTHER INFORMATION: n = deoxyribouridine w/ fluorophore and replication blocker W--> 59 < 400 > 3W--> 60 cgcacgatgt agcacatcag aagcgtgcgn 30 62 <210> SEQ ID NO: 4 63 <211> LENGTH: 18 64 <212> TYPE: DNA 65 <213> ORGANISM: Artificial Sequence 66 <220> FEATURE: 67 <221> NAME/KEY: misc\_feature 68 <222> LOCATION: ()..() 69 <223> OTHER INFORMATION: B2731 Scorpion primer 70 <221> NAME/KEY: misc\_feature 71 <222> LOCATION: (1)..() 72 <223> OTHER INFORMATION: fluorescein dye W--> 73 <221> misc\_feature 74 <222> LOCATION: (18)..(18) 75 <223> OTHER INFORMATION: n = deoxyuridine w/ fluorophore and replication blocker W--> 76 <400> 4 W--> 77 aggtagtgca gagagtgn 18 79 <210> SEQ ID NO: 5 80 <211> LENGTH: 31 81 <212> TYPE: DNA 82 <213> ORGANISM: Artificial Sequence 83 <220> FEATURE: 84 <221> NAME/KEY: misc\_feature 85 <222> LOCATION: ()..() 86 <223> OTHER INFORMATION: B2731 Scorpion primer 87 <400> SEQUENCE: 5 gagcctcaac atcctgctcc cctcctacta c 88 31 90 <210> SEQ ID NO: 6 91 <211> LENGTH: 17 92 <212> TYPE: DNA 93 <213> ORGANISM: Artificial Sequence 94 <220> FEATURE: 95 <221> NAME/KEY: misc\_feature

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/974,870B

96 <222> LOCATION: ()..()

98 <221> NAME/KEY: misc\_feature

97 <223> OTHER INFORMATION: B4249 Scorpion primer

RAW SEQUENCE LISTING

DATE: 08/21/2002 PATENT APPLICATION: US/09/974,870B TIME: 10:12:59

Input Set : N:\Crf3\08122002\I974870F.raw Output Set: N:\CRF3\08202002\I974870B.raw

99 <222> LOCATION: (1)..(1) 100 <223> OTHER INFORMATION: fluoroscein dye W--> 101 <221> misc\_feature 102 <222> LOCATION: (17)..(17) 103 <223> OTHER INFORMATION: attached replication blocking hexethylene glycol monomer W--> 104 <400> 6 aggtagtgca gagagtg 105 107 <210> SEQ ID NO: 7 17 108 <211> LENGTH: 19 109 <212> TYPE: DNA 110 <213> ORGANISM: Artificial Sequence 111 <220> FEATURE: 112 <221> NAME/KEY: misc\_feature 113 <222> LOCATION: ()..() 114 <223> OTHER INFORMATION: Quencher oligonucleotide 115 <221> NAME/KEY: misc\_feature 116 <222> LOCATION: (19)..(19) 117 <223> OTHER INFORMATION: n = deoxyribouridine with attached non-fluorogenic fluorophore W--> 118 <400> 7 W--> 119cactctcctg cactacctn 121 <210> SEQ ID NO: 8 19 122 <211> LENGTH: 28 123 <212> TYPE: DNA 124 <213> ORGANISM: Artificial Sequence 125 <220> FEATURE: 126 <221> NAME/KEY: misc\_feature 127 <222> LOCATION: ()..() 128 <223> OTHER INFORMATION: ARMS primer R284-97 129 <400> SEQUENCE: 8 130 ttcggggctc cacacggcga ctctcaac 28 132 <210> SEQ ID NO: 9 133 <211> LENGTH: 28 134 <212> TYPE: DNA 135 <213> ORGANISM: Artificial Sequence 136 <220> FEATURE: 137 <221> NAME/KEY: misc\_feature 138 <222> LOCATION: ()..() 139 <223> OTHER INFORMATION: ARMS primer R283-97 140 <400> SEQUENCE: 9

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141

28

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/974,870B

DATE: 08/21/2002 TIME: 10:13:00

Input Set : N:\Crf3\08122002\I974870F.raw
Output Set: N:\CRF3\08202002\I974870B.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 30
Seq#:3; N Pos. 30
Seq#:4; N Pos. 18
Seq#:7; N Pos. 19

## Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5,28
Seq#:3; Line(s) 58
Seq#:4; Line(s) 75
Seq#:6; Line(s) 103
Seq#:7; Line(s) 117

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/974,870B

DATE: 08/21/2002 TIME: 10:13:00

Input Set : N:\Crf3\08122002\I974870F.raw
Output Set: N:\CRF3\08202002\I974870B.raw

L:7 M:270 C: Current Application Number differs, Wrong Format
L:26 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:29 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:30 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:53 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:56 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:59 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:73 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:76 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:101 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6
L:104 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:6
L:118 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:7
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0